

a remote console functionality assist logic structure controlled by the processor to provide video signals generated by the managed computer system to a remote computer system.

2. (Withdrawn) The computer system as set forth in claim 1, wherein the bus comprises a Peripheral Component Interconnect (PCI) bus.

3. (Original) The computer system as set forth in claim 1, wherein the remote console functionality assist logic structure comprises a video encoder for encoding video signals transmitted between a video controller and a system processor associated with the managed computer system.

4. (Withdrawn) The computer system as set forth in claim 1, wherein the remote console functionality assist logic structure comprises a keyboard interface logic circuit.

5. (Original) A computer system, comprising:  
an Input/Output (I/O) processor disposed on a bus;  
a video controller disposed on the bus; and  
a remote console functionality assist logic structure disposed on the bus, the structure controlled by the processor to provide video signals of the video controller to a remote computer system.

6. (Withdrawn) The computer system as set forth in claim 5, wherein the bus comprises a Peripheral Component Interconnect (PCI) bus.

7. (Original) The computer system as set forth in claim 5, wherein the remote console functionality assist logic structure comprises a video encoder for encoding video signals of the video controller.
8. (Withdrawn) The computer system as set forth in claim 5, wherein the remote console functionality assist logic structure comprises a keyboard interface logic circuit.
9. (Original) A computer system, comprising:
  - a bus adapted to connect a plurality of devices and an expansion slot;
  - an add-in board disposed in the expansion slot, the add-in board comprising a processor; and
  - a remote server console device adapted to communicate on the bus, the device having a remote console functionality assist logic structure controlled by the processor.
10. (Withdrawn) The computer system of claim 9 wherein the add-in board comprises a connector that facilitates the transmission of control signals associated with the processor to the remote server console device.
11. (Withdrawn) The computer system of claim 9 wherein the remote console functionality assist logic structure comprises a system management controller.
12. (Withdrawn) The computer system of claim 9 wherein the remote console functionality assist logic structure comprises an interrupt controller associated with the processor.

13. (Withdrawn) The computer system as set forth in claim 9, wherein the add-in board comprises a back-up power source.

14. (Original) The computer system as set forth in claim 9, wherein the remote console functionality assist logic structure comprises a video encoder for encoding video signals of a video controller associated with the computer system.

15. (Withdrawn) The computer system as set forth in claim 9, wherein the remote console functionality assist logic structure comprises a keyboard interface logic circuit.

16. (Original) A remote server management control system for a computer system, the computer system comprising a bus adapted to connect a plurality of devices and an expansion slot, the remote server management control system comprising:

an add-in board disposed in the expansion slot, the add-in board comprising a processor; and

a remote server console device adapted to communicate on the bus, the device comprising a remote console functionality assist logic structure controlled by the processor.

17. (Withdrawn) The remote server management control system as set forth in claim 16, wherein the add-in board comprises a connector that facilitates the transmission of control signals associated with the processor to the remote server console device.

18. (Withdrawn) The remote server management control system as set forth in claim 16, wherein the remote console functionality assist logic structure comprises a system management controller.

19. (Withdrawn) The remote server management control system as set forth in claim 16, wherein the remote console functionality assist logic structure comprises an interrupt controller for the processor.

20. (Withdrawn) The remote server management control system as set forth in claim 16, wherein the add-in board comprises a back-up power source.

21. (Original) The remote server management control system as set forth in claim 16, wherein the remote console functionality assist logic structure comprises a video encoder for encoding video signals of a video controller associated with the computer system.

22. (Withdrawn) The remote server management control system as set forth in claim 16, wherein the remote console functionality assist logic structure comprises a keyboard interface logic circuit.

23. (Original) A remotely managed computer system, comprising:  
a system processor operably coupled to an Input/Output (I/O) bus;  
a video controller disposed on the bus to provide video signals to the remotely managed computer system; and

a remote console functionality assist logic structure disposed on the bus, the logic structure adapted to capture the video signals of the video controller and direct video information to a remote computer system.

24. (Withdrawn) The computer system as set forth in claim 23, wherein the bus comprises a Peripheral Component Interconnect (PCI) bus.
25. (Original) The computer system as set forth in claim 23, wherein the remote console functionality assist logic structure comprises a video encoder for encoding video signals of the video controller.
26. (Withdrawn) The computer system as set forth in claim 23, wherein the remote console functionality assist logic structure comprises a keyboard interface logic circuit.
27. (Withdrawn) The computer system as set forth in claim 23, wherein the remote console functionality assist logic structure a system management controller.
28. (Withdrawn) The computer system as set forth in claim 23, comprising an Input/Output processor adapted to control the remote console functionality assist logic structure.
29. (Withdrawn) The computer system as set forth in claim 23, wherein the remote console functionality assist logic structure comprises an interrupt controller for the Input/Output processor.

30. (Original) A method of remotely monitoring a computer system, comprising the acts of:

providing a remote console functionality assist logic structure associated with the computer system;  
establishing a connection between the computer system and a remote terminal; and  
controlling the remote console functionality assist logic structure by an Input/Output processor.

31. (Withdrawn) The method as set forth in claim 30, wherein the act of establishing comprises the act of setting up an in-band connection.

32. (Withdrawn) The method as set forth in claim 30, wherein the act of establishing comprises the act of setting up an out-of-band connection.

33. (Original) A method of providing remote console functionality assist logic in a computer system, the computer system comprising a bus that is adapted to connect a plurality of devices and an expansion slot, the method comprising the acts of:

providing the computer system with an add-in board disposed in the expansion slot,  
the add-in board comprising a processor; and  
providing the computer system with a remote server console device adapted to communicate on the bus, the remote server console device comprising a remote console functionality assist logic structure, wherein the operation of the remote server console device is controlled by the processor.

34. (Withdrawn) The method as set forth in claim 33, comprising the act of providing the add-in board with a connector that facilitates the transmission of control signals associated with the processor to the remote server console device.

35. (Withdrawn) The method as set forth in claim 33, comprising the act of providing the remote console functionality assist logic structure with a system management controller.

36. (Withdrawn) The method as set forth in claim 33, comprising the act of providing the remote console functionality assist logic structure with an I/O processor interrupt controller

37. (Withdrawn) The method as set forth in claim 33, comprising the act of providing the add-in board with a back-up power source.

38. (Original) The method as set forth in claim 33, comprising the act of providing the remote console functionality assist logic structure with a video encoder for encoding video signals of a video controller associated with the computer system.

39. (Withdrawn) The method as set forth in claim 33, comprising the act of providing the remote console functionality assist logic structure with a keyboard interface logic circuit.

40. (Original) A method of providing remote server management control functionality in a computer system, the method comprising the acts of:

providing the computer system with a remote console functionality assist logic structure adapted to monitor activities in the computer system and provide data to a remote user; and

controlling the remote console functionality assist logic with a processor contained on an add-in board mounted in an expansion slot on a communication bus in the computer system.

41. (Withdrawn) The method as set forth in claim 40, comprising the act of providing the add-in board with a connector that facilitates the transmission of control signals associated with the processor to the remote console functionality assist logic structure.

42. (Withdrawn) The method as set forth in claim 40, comprising the act of providing the remote console functionality assist logic structure with a system management controller.

43. (Withdrawn) The method as set forth in claim 40, comprising the act of providing the remote console functionality assist logic structure with an interrupt controller for the processor.

44. (Withdrawn) The method as set forth in claim 40, comprising the act of providing the add-in board with a back-up power source.

45. (Original) The method as set forth in claim 40, comprising the act of providing the remote console functionality assist logic structure with a video encoder for encoding video signals of a video controller associated with the computer system.

46. (Withdrawn) The method as set forth in claim 40, comprising the act of providing the remote console functionality assist logic structure with a keyboard interface logic circuit.



47. (Original) A method of transmitting video data between a remotely managed computer system and a remote computer system, comprising the acts of:
- using a remote console functionality assist logic structure disposed on a bus and
- controlled by an Input/Output processor to provide video signals of a video controller of the remotely managed computer system to the remote computer system.
48. (Withdrawn) The method as set forth in claim 47, wherein the bus comprises a Peripheral Component Interconnect (PCI) bus.
49. (Original) The method as set forth in claim 47, comprising the act of using a video encoder of the remote console functionality assist logic structure for encoding video signals of the video controller.
50. (Withdrawn) The method as set forth in claim 47, wherein the remote console functionality assist logic structure comprises a keyboard interface logic circuit.

#### **REMARKS**

Reconsideration of the application as amended is respectfully requested. The Examiner has restricted examination of claims 1-50 in this application. Specifically, the Examiner has indicated that claims 1, 5, 9, 16, 23, 30, 33, 40 and 47 are considered generic. The Examiner has further restricted claims 2, 6, 24 and 48 as being directed to a PCI bus of Species I; claims 3, 7, 14, 21, 25, 38, 45 and 49 as being directed to Video Encoders of Species II; claims 4, 8, 15, 22, 26, 29, 46 and 50 as being directed to Keyboard interfaces of



Species III; claims 10, 17, 34 and 41 as being directed to Add-In Board-Control Signals of Species IV; claims 11, 18, 27, 35 and 42 as being directed to system Management Controls of Species V; claims 12, 19, 29, 36 and 43 as being directed to interrupt controllers of Species VI; claims 13, 20, 37 and 44 as being directed to Add-In Board-backup Powers of Species VII; claim 28 as being directed to Input/Output Processor of Species VIII; and claims 31-32 as being directed to In/Out Connections of Species VIII.

Although Applicants do not necessarily agree with the Examiner's reasons for restriction, Applicants elect to prosecute the generic claims 1, 5, 9, 16, 23, 30, 33, 40 and 47, and the claims 3, 7, 14, 21, 25, 38, 45 and 49 of Species II. Therefore, Applicants have withdrawn claims 2, 4, 6, 8, 10-13, 15, 17-20, 22, 24, 26-28, 31-32, 34-37, 39, 41-44, 46, 48, and 50 with prejudice.

If the Examiner believes that a telephonic interview will help speed this application toward issuance, the Examiner is invited to contact the undersigned at the telephone number listed below.

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